

Bridge Inspection Report

02912
US 82 S-6 LM 16.17
over
LAPILE CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02912

Inspection Date:

Facility Carried: US 82 S-6 LM 16.17

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/07/2018
(8) STRUCTURE NUMBER	02912	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 82 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 139	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LAPILE CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 82 S-6 LM 16.17		
(9) LOCATION	1.60 MI E OF STRONG		
(11) MILEPOINT 16.177	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000082060 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.11628	(17) LONGITUDE -92.38136		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	6 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 6	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1954	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	47.0
(29) AVERAGE DAILY TRAFFIC 5900	(19) BYPASS DETOUR LENGTH 13	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	28.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 25	(49) STRUCTURE LENGTH (ft.) 150	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 28.2		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 31.8		(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.) 36.1		(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 31.2		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	63.7 STATUS 2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 180		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	400	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	1123	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 6855	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	4769	sq. ft.	4702	35	32	
	Soffit in span 2, spalls with exposed rebar. Span 3, spall with exposed rebar. Span 4, spalls with exposed rebar.						
1080 - Delamination/Spall/Patched Area		35			35		
1090 - Exposed Rebar		32				32	
510 - Wearing Surfaces		4230	sq. ft.	3630	600		
3220 - Crack (Wearing Surface)		600			600		
227 - Reinforced Concrete Pile	1- Ben.	25	each	5	20		
	Abrasion & wear to all piles in bents 2, 3, 4, & 5, at water line.						
1190 - Abrasion/Wear (PSC/RC)		20			20		
234 - Reinforced Concrete Pier Cap	1- Ben.	224	ft.	196	20	8	
	Bent 2, spalls with exposed rebar. Bent 3, delams. Bent 4, has exposed rebar. Bent 5, delam on right side of cap with exposed rebar on ahead, left side. Bent 6, delam and spall with exposed rebar, at pile 3.						
1080 - Delamination/Spall/Patched Area		5			5		
1090 - Exposed Rebar		8				8	
1130 - Cracking (RC and Other)		15			15		
301 - Pourable Joint Seal	1- Ben.	191	ft.	191			
510 - Wearing Surfaces		191	sq. ft.	191			
330 - Metal Bridge Railing	1- Ben.	300	ft.	300			

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Maintenance Needs

Date Reported: 3/12/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck - Soffit, Spans 3 & 5.

Longitudinal cracking and spalling off with some steel exposed (1-2 bars exposed).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

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Bridge Inspection Report

Maintenance Needs

Date Reported: 3/12/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Cap, bent 2 back. spalls with exposed steel.

Cap, bent 6 back (left). Spalls with exposed steel.

Cap, bent 4 (ahead). 15' crack.
Spalls (3 feet) with exposed steel (some section loss).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 2 cap spalled with exposed steel.

Stage: Monitor



PHOTO 2 Description Bent 6 cap spalled

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Maintenance Needs

Stage: Monitor



PHOTO 3	Description	Bent 4 ahead, cap is cracked with 3' spall
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Maintenance Needs

Date Reported: 03/23/2016

Priority: C - Important

Work Code:

Deficiency Description:

Abutments 1 & 2 have scour holes that go back and under the abutment caps.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description